# Rocky Branch Monitoring Sites Monitoring Data Summary for September 25<sup>th</sup>, 2020 – October 29<sup>th</sup>, 2020

#### Data Gaps

- At the ROCA station, a brief period of turbidity and DO data from October 26<sup>th</sup>-28<sup>th</sup> and October 25<sup>th</sup>-28<sup>th</sup> respectively was removed from the dataset due to the sensor being buried, causing the turbidity and DO values to be obscured.
- At the ROCB station, there were no data gaps.

#### SCDHEC Standards

- The ROCA and ROCB stations did not record any pH values outside of the acceptable SCDHEC range of 6 to 8.5
- The ROCA and ROCB stations recorded average DO concentrations of 7.4 mg/L and 8.0 mg/L, respectively, which are well above the SCDHEC daily average minimum standard of 5 mg/L.
- The minimum DO concentration recorded was 5.7 mg/L at ROCA station and 5.9 mg/L at the ROCB station. Both stations were above the SCDHEC discrete minimum standard of 4 mg/L.

#### Storm Events

- The ROCA station recorded 6 storm events during this monitoring period, resulting in 2.3 inches of total precipitation. The ROCB station recorded 5 storm events during this monitoring period, resulting in 2.2 inches of total precipitation.
- Both ROCA and ROCB stations exhibited typical responses to storm events during this monitoring period.

#### Potential Illicit Discharges and Abnormal Events

- At the ROCA station, several increased levels of specific conductivity were recorded simultaneously with increased levels of pH. These occurrences were observed October 1<sup>st</sup>, October 2<sup>nd</sup>, October 5<sup>th</sup>-6<sup>th</sup>, October 8<sup>th</sup>, and October 14<sup>th</sup>. These elevated levels of specific conductivity and pH were likely a result of the Maxcy Gregg pool discharge.
- At the ROCB station, specific conductivity levels were significantly elevated on September 26<sup>th</sup>, October 2<sup>nd</sup>, October 3<sup>rd</sup>, October 9<sup>th</sup>, October 22<sup>nd</sup>, and October 23<sup>rd</sup>.

#### Flow Measurements

• No flow measurements were taken at the ROCA or ROCB stations during this monitoring period.





#### Rocky Branch A (September 25, 2020 - October 29, 2020)



Note: Data gaps appear when the sonde is removed for calibration or when the flow depth is below the sensors

### Rocky Branch A (September 25, 2020 - October 29, 2020)

# **Explanation of Statistics:**

MINIMUM OBSERVED	The minimum of the values recorded by the datasonde in 15 minute intervals.
MAXIMUM OBSERVED	The maximum of the values recorded by the datasonde in 15 minute intervals.
MEDIAN OBSERVED	The median of all the values recorded by the datasonde in 15 minute intervals.
MEAN OBSERVED	The average of all the values recorded by the datasonde in 15 minute intervals.
STANDARD DEVIATION	The standard deviation of all the values recorded by the datasonde in 15 minute intervals.

### Grab Sample Data:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	9/28/2020		10/7/2020					
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	14:11	370	13:05	316				
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes: All samples were collected during dry weather conditions.





#### Rocky Branch B (September 25, 2020 - October 29, 2020)



Note: Data gaps appear when the sonde is removed for calibration or when the flow depth is below the sensors

### Rocky Branch B (September 25, 2020 - October 29, 2020)

# **Explanation of Statistics:**

MINIMUM OBSERVED	The minimum of the values recorded by the datasonde in 15 minute intervals.
MAXIMUM OBSERVED	The maximum of the values recorded by the datasonde in 15 minute intervals.
MEDIAN OBSERVED	The median of all the values recorded by the datasonde in 15 minute intervals.
MEAN OBSERVED	The average of all the values recorded by the datasonde in 15 minute intervals.
STANDARD DEVIATION	The standard deviation of all the values recorded by the datasonde in 15 minute intervals.

## Sampled Data:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	9/28/2020		10/7/2020					
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	14:00	332	13:20	776				
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes: All samples were collected during dry weather conditions.